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SEQUENCE LISTING

<110> Berezenko, Stephen  
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Stewart, Alan J.  
Blindauer, Claudia  
Bunyan, Kerry Emma

<120> NOVEL ALBUMINS

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<140> PCT/GB03/003199

<141> 2003-07-28

<150> GB0217347.4

<151> 2002-07-26

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Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg  
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Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser Xaa  
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Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro  
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&lt;400&gt; 2

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 Lys Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro  
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Ala Arg Leu Ser Gln Arg Phe Pro Lys Ala Glu Phe Ala Glu Val Ser  
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Cys Glu Asn Gln Asp Ser Ile Ser Ser Lys Leu Lys Glu Cys Cys Glu  
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 370 375 380

Cys Ala Ala Ala Asp Pro His Glu Cys Tyr Ala Lys Val Phe Asp Glu  
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Glu Leu Phe Glu Gln Leu Gly Glu Tyr Lys Phe Gln Asn Ala Leu Leu  
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Gln Cys Pro Phe Glu Glu His Val Lys Leu Val Asn Glu Val Thr Glu  
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 100 105 110  
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 115 120 125  
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 Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Ala Arg  
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 180 185 190  
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 195 200 205  
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 Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Lys Phe Pro  
 225 230 235 240  
 Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys  
 245 250 255  
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 260 265 270  
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<212> PRT

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Lys Leu Ala Lys Glu Val Thr Glu Phe Ala Lys Ala Cys Ala Ala Glu  
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Glu Ser Gly Ala Asn Cys Asp Lys Ser Leu His Thr Leu Phe Gly Asp  
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Lys Leu Cys Thr Val Ala Ser Leu Arg Asp Lys Tyr Gly Asp Met Ala  
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Asp Cys Cys Glu Lys Gln Glu Pro Asp Arg Asn Glu Cys Phe Leu Ala  
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His Lys Asp Asp Asn Pro Gly Phe Pro Pro Leu Val Ala Pro Glu Pro  
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 210 215 220  
 Ala Ser Leu Gln Lys Phe Gly Asp Arg Ala Phe Lys Ala Trp Ser Val  
 225 230 235 240  
 Ala Arg Leu Ser Gln Arg Phe Pro Lys Ala Asp Phe Ala Glu Ile Ser  
 245 250 255  
 Lys Val Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly  
 260 265 270  
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 Cys Glu Asn Gln Asp Ser Ile Ser Thr Lys Leu Lys Glu Cys Cys Asp  
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 325 330 335  
 Lys Glu Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Val Phe Leu Gly  
 340 345 350  
 Thr Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ser Val Ser  
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<212> PRT

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Val	Ala	Phe	Ser
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Gln	Tyr	Leu	Gln
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Gln	Cys	Pro	Phe
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Thr	Ala	Phe	His
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Lys	Tyr	Leu	Tyr
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 325 330 335  
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 Val Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe  
 500 505 510

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Ser Ala Leu Gln Val Asp Glu Thr Tyr Val Pro Lys Glu Phe Ser Ala  
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Asp Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Ala Phe Leu Gly Ser  
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Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ala Val Ser Val

355

360

365

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&lt;211&gt; 607

&lt;212&gt; PRT

&lt;213&gt; ovis aries

&lt;400&gt; 7

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Tyr Ser Arg Gly Val Phe Arg Arg Asp Thr His Lys Ser Glu Ile Ala  
 20 25 30

His Arg Phe Asn Asp Leu Gly Glu Glu Asn Phe Gln Gly Leu Val Leu  
 35 40 45

Ile Ala Phe Ser Gln Tyr Leu Gln Gln Cys Pro Phe Asp Glu His Val  
 50 55 60

Lys Leu Val Lys Glu Leu Thr Glu Phe Ala Lys Thr Cys Val Ala Asp  
 65 70 75 80

Glu Ser His Ala Gly Cys Asp Lys Ser Leu His Thr Leu Phe Gly Asp  
 85 90 95

Glu Leu Cys Lys Val Ala Thr Leu Arg Glu Thr Tyr Gly Asp Met Ala  
 100 105 110

Asp Cys Cys Glu Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Asn  
 115 120 125

His Lys Asp Asp Ser Pro Asp Leu Pro Lys Leu Lys Pro Glu Pro Asp  
 130 135 140

Thr Leu Cys Ala Glu Phe Lys Ala Asp Glu Lys Lys Phe Trp Gly Lys  
 145 150 155 160

Tyr Leu Tyr Glu Val Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu  
 165 170 175

Leu Leu Tyr Tyr Ala Asn Lys Tyr Asn Gly Val Phe Gln Glu Cys Cys  
 180 185 190

Gln Ala Glu Asp Lys Gly Ala Cys Leu Leu Pro Lys Ile Asp Ala Met  
 195 200 205

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Arg Glu Lys Val Leu Ala Ser Ser Ala Arg Gln Arg Leu Arg Cys Ala  
210 215 220

Ser Ile Gln Lys Phe Gly Glu Arg Ala Leu Lys Ala Trp Ser Val Ala  
225 230 235 240

Arg Leu Ser Gln Lys Phe Pro Lys Ala Asp Phe Thr Asp Val Thr Lys  
245 250 255

Ile Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly Asp  
260 265 270

Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys  
275 280 285

Asp His Gln Asp Ala Leu Ser Ser Lys Leu Lys Glu Cys Cys Asp Lys  
290 295 300

Pro Val Leu Glu Lys Ser His Cys Ile Ala Glu Val Asp Lys Asp Ala  
305 310 315 320

Val Pro Glu Asn Leu Pro Pro Leu Thr Ala Asp Phe Ala Glu Asp Lys  
325 330 335

Glu Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Val Phe Leu Gly Ser  
340 345 350

Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ala Val Ser Val  
355 360 365

Leu Leu Arg Leu Ala Lys Glu Tyr Glu Ala Thr Leu Glu Asp Cys Cys  
370 375 380

Ala Lys Glu Asp Pro His Ala Cys Tyr Ala Thr Val Phe Asp Lys Leu  
385 390 395 400

Lys His Leu Val Asp Glu Pro Gln Asn Leu Ile Lys Lys Asn Cys Glu  
405 410 415

Leu Phe Glu Lys His Gly Glu Tyr Gly Phe Gln Asn Ala Leu Ile Val  
420 425 430

Arg Tyr Thr Arg Lys Ala Pro Gln Val Ser Thr Pro Thr Leu Val Glu  
435 440 445

Ile Ser Arg Ser Leu Gly Lys Val Gly Thr Lys Cys Cys Ala Lys Pro  
450 455 460

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Glu Ser Glu Arg Met Pro Cys Thr Glu Asp Tyr Leu Ser Leu Ile Leu  
465 470 475 480

Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys Val  
485 490 495

Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser  
500 505 510

Asp Leu Thr Leu Asp Glu Thr Tyr Val Pro Lys Pro Phe Asp Glu Lys  
515 520 525

Phe Phe Thr Phe His Ala Asp Ile Cys Thr Leu Pro Asp Thr Glu Lys  
530 535 540

Gln Ile Lys Lys Gln Thr Ala Leu Val Glu Leu Leu Lys His Lys Pro  
545 550 555 560

Lys Ala Thr Asp Glu Gln Leu Lys Thr Val Met Glu Asn Phe Val Ala  
565 570 575

Phe Val Asp Lys Cys Cys Ala Ala Asp Asp Lys Glu Gly Cys Phe Val  
580 585 590

Leu Glu Gly Pro Lys Leu Val Ala Ser Thr Gln Ala Ala Leu Ala  
595 600 605

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<211> 605

<212> PRT

<213> Sus scrofa

<400> 8

Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala Tyr Ser  
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Arg Gly Val Phe Arg Arg Asp Thr Tyr Lys Ser Glu Ile Ala His Arg  
20 25 30

Phe Lys Asp Leu Gly Glu Gln Tyr Phe Lys Gly Leu Val Leu Ile Ala  
35 40 45

Phe Ser Gln His Leu Gln Gln Cys Pro Tyr Glu Glu His Val Lys Leu  
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55

Val Arg Glu Val Thr Glu Phe Ala Lys Thr Cys Val Ala Asp Glu Ser  
65 70 75 80

Ala Glu Asn Cys Asp Lys Ser Ile His Thr Leu Phe Gly Asp Lys Leu  
85 90 95

Cys Ala Ile Pro Ser Leu Arg Glu His Tyr Gly Asp Leu Ala Asp Cys  
100 105 110

Cys Glu Lys Glu Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln His Lys  
115 120 125

Asn Asp Asn Pro Asp Ile Pro Lys Leu Lys Pro Asp Pro Val Ala Leu  
130 135 140

Cys Ala Asp Phe Gln Glu Asp Glu Gln Lys Phe Trp Gly Lys Tyr Leu  
145 150 155 160

Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu  
165 170 175

Tyr Tyr Ala Ile Ile Tyr Lys Asp Val Phe Ser Glu Cys Cys Gln Ala  
180 185 190

Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Ile Glu His Leu Arg Glu  
195 200 205

Lys Val Leu Thr Ser Ala Ala Lys Gln Arg Leu Lys Cys Ala Ser Ile  
210 215 220

Gln Lys Phe Gly Glu Arg Ala Phe Lys Ala Trp Ser Leu Ala Arg Leu  
225 230 235 240

Ser Gln Arg Phe Pro Lys Ala Asp Phe Thr Glu Ile Ser Lys Ile Val  
245 250 255

Thr Asp Leu Ala Lys Val His Lys Glu Cys Cys His Gly Asp Leu Leu  
260 265 270

Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn  
275 280 285

Gln Asp Thr Ile Ser Thr Lys Leu Lys Glu Cys Cys Asp Lys Pro Leu  
290 295 300

Leu Glu Lys Ser His Cys Ile Ala Glu Ala Lys Arg Asp Glu Leu Pro  
 305 310 315 320

Ala Asp Leu Asn Pro Leu Glu His Asp Phe Val Glu Asp Lys Glu Val  
 325 330 335

Cys Lys Asn Tyr Lys Glu Ala Lys Asp Val Phe Leu Gly Thr Phe Leu  
 340 345 350

Tyr Glu Tyr Ser Arg Arg His Pro Asp Tyr Ser Val Ser Leu Leu Leu  
 355 360 365

Arg Ile Ala Lys Ile Tyr Glu Ala Thr Leu Glu Asp Cys Cys Ala Lys  
 370 375 380

Glu Asp Pro Pro Ala Cys Tyr Ala Thr Val Phe Asp Lys Phe Gln Pro  
 385 390 395 400

Leu Val Asp Glu Pro Lys Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe  
 405 410 415

Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Ile Val Arg Tyr  
 420 425 430

Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu Val Ala  
 435 440 445

Arg Lys Leu Gly Leu Val Gly Ser Arg Cys Cys Lys Arg Pro Glu Glu  
 450 455 460

Glu Arg Leu Ser Cys Ala Glu Asp Tyr Leu Ser Leu Val Leu Asn Arg  
 465 470 475 480

Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys Val Thr Lys  
 485 490 495

Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu  
 500 505 510

Thr Pro Asp Glu Thr Tyr Lys Pro Lys Glu Phe Val Glu Gly Thr Phe  
 515 520 525

Thr Phe His Ala Asp Leu Cys Thr Leu Pro Glu Asp Glu Lys Gln Ile  
 530 535 540

Lys Lys Gln Thr Ala Leu Val Glu Leu Leu Lys His Lys Pro His Ala  
 545 550 555 560

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Thr Glu Glu Gln Leu Arg Thr Val Leu Gly Asn Phe Ala Ala Phe Val  
565 570 575

Gln Lys Cys Cys Ala Ala Pro Asp His Glu Ala Cys Phe Ala Val Glu  
580 585 590

Gly Pro Lys Phe Val Ile Glu Ile Arg Gly Ile Leu Ala  
595 600 605

<210> 9

<211> 608

<212> PRT

<213> Oryctolagus cuniculus

<400> 9

Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala  
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Tyr Ser Arg Gly Val Phe Arg Arg Glu Ala His Lys Ser Glu Ile Ala  
20 25 30

His Arg Phe Asn Asp Val Gly Glu Glu His Phe Ile Gly Leu Val Leu  
35 40 45

Ile Thr Phe Ser Gln Tyr Leu Gln Lys Cys Pro Tyr Glu Glu His Ala  
50 55 60

Lys Leu Val Lys Glu Val Thr Asp Leu Ala Lys Ala Cys Val Ala Asp  
65 70 75 80

Glu Ser Ala Ala Asn Cys Asp Lys Ser Leu His Asp Ile Phe Gly Asp  
85 90 95

Lys Ile Cys Ala Leu Pro Ser Leu Arg Asp Thr Tyr Gly Asp Val Ala  
100 105 110

Asp Cys Cys Glu Lys Lys Glu Pro Glu Arg Asn Glu Cys Phe Leu His  
115 120 125

His Lys Asp Asp Lys Pro Asp Leu Pro Pro Phe Ala Arg Pro Glu Ala  
130 135 140

Asp Val Leu Cys Lys Ala Phe His Asp Asp Glu Lys Ala Phe Phe Gly  
145 150 155 160



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His Tyr Leu Tyr Glu Val Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro  
165 170 175

Glu Leu Leu Tyr Tyr Ala Gln Lys Tyr Lys Ala Ile Leu Thr Glu Cys  
180 185 190

Cys Glu Ala Ala Asp Lys Gly Ala Cys Leu Thr Pro Lys Leu Asp Ala  
195 200 205

Leu Glu Gly Lys Ser Leu Ile Ser Ala Ala Gln Glu Arg Leu Arg Cys  
210 215 220

Ala Ser Ile Gln Lys Phe Gly Asp Arg Ala Tyr Lys Ala Trp Ala Leu  
225 230 235 240

Val Arg Leu Ser Gln Arg Phe Pro Lys Ala Asp Phe Thr Asp Ile Ser  
245 250 255

Lys Ile Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly  
260 265 270

Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Met  
275 280 285

Cys Glu His Gln Glu Thr Ile Ser Ser His Leu Lys Glu Cys Cys Asp  
290 295 300

Lys Pro Ile Leu Glu Lys Ala His Cys Ile Tyr Gly Leu His Asn Asp  
305 310 315 320

Glu Asp Thr Ala Gly Leu Pro Ala Val Ala Glu Glu Phe Val Glu Asp  
325 330 335

Lys Asp Val Cys Lys Asn Tyr Glu Glu Ala Lys Asp Leu Phe Leu Gly  
340 345 350

Lys Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Asp Tyr Ser Val Val  
355 360 365

Leu Leu Leu Arg Leu Gly Lys Ala Tyr Glu Ala Thr Leu Lys Lys Cys  
370 375 380

Cys Ala Thr Asp Asp Pro His Ala Cys Tyr Ala Lys Val Leu Asp Glu  
385 390 395 400

Phe Gln Pro Leu Val Asp Glu Pro Lys Asn Leu Val Lys Gln Asn Cys  
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405

410

415

Glu Leu Tyr Glu Gln Leu Gly Asp Tyr Asn Phe Gln Asn Ala Leu Leu  
 420 425 430

Val Arg Tyr Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val  
 435 440 445

Glu Ile Ser Arg Ser Leu Gly Lys Val Gly Ser Lys Cys Cys Lys His  
 450 455 460

Pro Glu Ala Glu Arg Leu Pro Cys Val Glu Asp Tyr Leu Ser Val Val  
 465 470 475 480

Leu Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys  
 485 490 495

Val Thr Lys Cys Cys Ser Glu Ser Leu Ser Asn Arg Arg Pro Cys Phe  
 500 505 510

Ser Ala Leu Gly Pro Asp Glu Thr Tyr Val Pro Lys Glu Phe Asn Ala  
 515 520 525

Glu Thr Phe Thr Phe His Ala Asp Ile Cys Thr Leu Pro Glu Thr Glu  
 530 535 540

Arg Lys Ile Lys Lys Gln Thr Ala Leu Val Glu Leu Val Lys His Lys  
 545 550 555 560

Pro His Ala Thr Asn Asp Gln Leu Lys Thr Val Val Gly Glu Phe Thr  
 565 570 575

Ala Leu Leu Asp Lys Cys Cys Ser Ala Glu Asp Lys Glu Ala Cys Phe  
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Ala Val Glu Gly Pro Lys Leu Val Glu Ser Ser Lys Ala Thr Leu Gly  
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<210> 10

<211> 608

<212> PRT

<213> Rattus norvegicus

<400> 10

Met Lys Trp Val Thr Phe Leu Leu Leu Leu Phe Ile Ser Gly Ser Ala  
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His Arg Phe Lys Asp Leu Gly Glu Gln His Phe Lys Gly Leu Val Leu  
35 40 45

Ile Ala Phe Ser Gln Tyr Leu Gln Lys Cys Pro Tyr Glu Glu His Ile  
50 55 60

Lys Leu Val Gln Glu Val Thr Asp Phe Ala Lys Thr Cys Val Ala Asp  
65 70 75 80

Glu Asn Ala Glu Asn Cys Asp Lys Ser Ile His Thr Leu Phe Gly Asp  
85 90 95

Lys Leu Cys Ala Ile Pro Lys Leu Arg Asp Asn Tyr Gly Glu Leu Ala  
100 105 110

Asp Cys Cys Ala Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln  
115 120 125

His Lys Asp Asp Asn Pro Asn Leu Pro Pro Phe Gln Arg Pro Glu Ala  
130 135 140

Glu Ala Met Cys Thr Ser Phe Gln Glu Asn Pro Thr Ser Phe Leu Gly  
145 150 155 160

His Tyr Leu His Glu Val Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro  
165 170 175

Glu Leu Leu Tyr Tyr Ala Glu Lys Tyr Asn Glu Val Leu Thr Gln Cys  
180 185 190

Cys Thr Glu Ser Asp Lys Ala Ala Cys Leu Thr Pro Lys Leu Asp Ala  
195 200 205

Val Lys Glu Lys Ala Leu Val Ala Ala Val Arg Gln Arg Met Lys Cys  
210 215 220

Ser Ser Met Gln Arg Phe Gly Glu Arg Ala Phe Lys Ala Trp Ala Val  
225 230 235 240

Ala Arg Met Ser Gln Arg Phe Pro Asn Ala Glu Phe Ala Glu Ile Thr  
245 250 255

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Lys Leu Ala Thr Asp Val Thr Lys Ile Asn Lys Glu Cys Cys His Gly  
 260 265 270  
 Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Glu Leu Ala Lys Tyr Met  
 275 280 285  
 Cys Glu Asn Gln Ala Thr Ile Ser Ser Lys Leu Gln Ala Cys Cys Asp  
 290 295 300  
 Lys Pro Val Leu Gln Lys Ser Gln Cys Leu Ala Glu Thr Glu His Asp  
 305 310 315 320  
 Asn Ile Pro Ala Asp Leu Pro Ser Ile Ala Ala Asp Phe Val Glu Asp  
 325 330 335  
 Lys Glu Val Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe Leu Gly  
 340 345 350  
 Thr Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Asp Tyr Ser Val Ser  
 355 360 365  
 Leu Leu Leu Arg Leu Ala Lys Lys Tyr Glu Ala Thr Leu Glu Lys Cys  
 370 375 380  
 Cys Ala Glu Gly Asp Pro Pro Ala Cys Tyr Gly Thr Val Leu Ala Glu  
 385 390 395 400  
 Phe Gln Pro Leu Val Glu Glu Pro Lys Asn Leu Val Lys Thr Asn Cys  
 405 410 415  
 Glu Leu Tyr Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Val Leu  
 420 425 430  
 Val Arg Tyr Thr Gln Lys Ala Pro Gln Val Ser Thr Pro Thr Leu Val  
 435 440 445  
 Glu Ala Ala Arg Asn Leu Gly Arg Val Gly Thr Lys Cys Cys Thr Leu  
 450 455 460  
 Pro Glu Ala Gln Arg Leu Pro Cys Val Glu Asp Tyr Leu Ser Ala Ile  
 465 470 475 480  
 Leu Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys  
 485 490 495  
 Val Thr Lys Cys Cys Ser Gly Ser Leu Val Glu Arg Arg Pro Cys Phe  
 500 505 510

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Ser Ala Leu Thr Val Asp Glu Thr Tyr Val Pro Lys Glu Phe Lys Ala  
515 520 525

Glu Thr Phe Thr Phe His Ser Asp Ile Cys Thr Leu Pro Asp Lys Glu  
530 535 540

Lys Gln Ile Lys Lys Gln Thr Ala Leu Ala Glu Leu Val Lys His Lys  
545 550 555 560

Pro Lys Ala Thr Glu Asp Gln Leu Lys Thr Val Met Gly Asp Phe Ala  
565 570 575

Gln Phe Val Asp Lys Cys Cys Lys Ala Ala Asp Lys Asp Asn Cys Phe  
580 585 590

Ala Thr Glu Gly Pro Asn Leu Val Ala Arg Ser Lys Glu Ala Leu Ala  
595 600 605

<210> 11

<211> 50

<212> DNA

<213> Artificial

<400> 11

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<210> 12

<211> 51

<212> DNA

<213> Artificial

<400> 12

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51